

## CLAIMS

1. A computer program product, tangibly embodied in an information carrier, the computer program product comprising instructions operable to cause data processing apparatus to perform operations comprising:
  - 5 establishing a model, the model implementing application logic of an application;
  - establishing at least one view for presenting the model;
  - establishing at least one controller for manipulating the model;
  - establishing at least one storage area, the storage area relating to the controller; and
  - establishing at least one access method for storing and accessing application data in
- 10 the storage area according to a predetermined structure.
2. The product of claim 1, wherein the predetermined structure is declared prior to execution of the application.
3. The product of claim 1, wherein the at least one access method includes code that is based on the predetermined structure.
- 15 4. The product of claim 1, wherein the predetermined structure is hierarchical.
5. The product of claim 1, wherein the predetermined structure is a tree.
6. The product of claim 5, wherein the tree comprises one or more of independent nodes and dependent nodes.
7. The product of claim 5, wherein the tree comprises a node with at least one attribute.
- 20 8. The product of claim 5, wherein the tree comprises one or more of model nodes and value nodes.
9. The product of claim 1, wherein the controller relates to the view and the application data comprises data used in the view.
10. The product of claim 1, wherein the view comprises a user interface (UI) element that is bound to the predetermined structure.

11. The product of claim 1, wherein:

the view and the storage area each has a lifetime; and

the lifetime of the storage area corresponds to the lifetime of the view.

12. The product of claim 11, wherein the lifetime of the storage area exceeds the lifetime of  
5 the view.

13. The product of claim 11, wherein the lifetime of the storage area corresponds to the lifetime of the application.

14. The product of claim 1, wherein the application data comprises a reference to data defined in the model.

10 15. The product of claim 1, wherein:

the at least one controller includes a first controller and a second controller;

the at least one storage area includes a first storage area relating to the first controller, and a second storage area relating to the second controller;

the first storage area comprises a first data structure;

15 the second storage area comprises a second data structure; and  
the first data structure references the second data structure.

16. The product of claim 15, wherein the first controller relates to the view, the view comprises a UI element, and the UI element is bound to the first data structure.

17. A system comprising:

20 a model, the model implementing application logic of an application;  
at least one view for presenting the model;  
at least one controller for manipulating the model;  
at least one storage area, the storage area relating to the controller; and  
at least one access method for storing and accessing application data in the storage  
25 area according to a predetermined structure.

18. An apparatus comprising:

means for establishing a model, the model implementing application logic of an application;

means for establishing at least one view for presenting the model;

5 means for establishing at least one controller for manipulating the model;

means for establishing at least one storage area, the storage area relating to the controller; and

means for establishing at least one access method for storing and accessing application data in the storage area according to a predetermined structure.